SOURCE CODE: UR/0000/66/000/000/0034/0042 ACC NR: AT7003991

AUTHOR: Tsygikalo, A. A.; Kharchenkc, Yu. A.

ORG: none

TITLE: Testing the elements of an electrostatic-generator accelerating tube with

ring insulators made from new materials

SOURCE: Mezhvuzovskaya konferentsiya po elektronnym uskoritelyam. 5th,

Tomsk, 1964. Elektronnyye uskoriteli (Electron accelerators); trudy

konferentsii. Moscow, Atomizdat, 1966, 34-42

TOPIC TAGS: electrostatic generator, particle acceleration, accelerating tube

ABSTRACT: The use of slanted electrodes in accelerating tubes (Van de Graaff et al., Nature, 195, 1292, 1962; E. Koltay, Phys., v. 4, no. 2, 66, 1963) permitted drawing the field strength of the tube closer to the electric strength of a single gap. The results of testing tube elements with ring insulators made from nonalkali glass, pyroceram, and epoxy compound are reported; the elements were

Card 1/2

CIA-RDP86-00513R001757310017-9 "APPROVED FOR RELEASE: 08/31/2001

ACC NR: AT7003991

intended for a 5-Mv accelerating tube. Findings: (1) Tested under $(1-3) \times 10^{-6}$ torr vacuum, the elements had these breakdown voltages: porcelain element, 98 kv; nonalkali-glass, 110 kv; pyroceram, 125-200 kv; (2) As some nonalkaliglass insulators suddenly cracked during the tests, the pyroceram insulators should be preferred; (3) Insulators made from epoxy compound seem promising but require further tests. Orig. art. has: 12 figures and 1 table.

SUB CODE: 09 / SUBM DATE: 06Mar66 / ORIG REF: 000 / OTH REF: 002

Card 2/2

TSYGIKALO, A.1.

N/5 653.071 .N3

TELEGRAFIYZ /TELEGRAPHY, BY/ P A. NAUMOV I A I. TSYGIKALG. MCSKVA, SVYAZ' IZDAT, 1956

V. ILLUS., DIAGRS., GRAPHS, TABLES, INCLUDES BIBLIOGRAPHIES.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310017-9"

AND THE RESIDENCE AND ASSESSMENT OF THE RESIDENCE ASSE

YEMEL'YAHOV, G. A.; BAZILEVICH, Ye. V.; TSYGIKALS, A.I.; KIRSANOV, V.I.; PEREGUDOV, A.N., otv. red.; DOBRYNINA, A.Ya., red.; MARKOCH, K.G., tekhn. red.

[Telegraphic communication; an informational bulletin] Telegrafinaia sviaz; informatsionnyi sbornik. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1958. 104 p. (MIRA 11:11)

1. Russia(1923- U.S.S.R.)Ministerstvo svyszi. Tekhnicheskoye upravleniye. (Telegraph)

NAUMOV, Pavel Alekseyevich; TSYGIKALO, Arkadiy Iosifovich; TOMASHEVSKIY, B.A. otvetstvennyy redaktor; KOKOSOV, L.V., redaktor; SUSHKEVICH, V.I., tekhnicheskiy redaktor

[Telegraph] Telegrafiia. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio. Pt.1. [Principles of telegraphy] Osnovy telegrafii. 1956. 98 p. (Telegraph)

TSIGIKAIO, A. I.	
Operation of telegraph communication; textbook sviazi i radio, 1952. 135 p. (54-15227)	k Moskva, Gos. izd-vo lit-ry po vonrosam
TK5262.38	
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	·

AHRAMOVA, N.A., nauchn. sotr.; BEL CHENKO, G.V., kand. tekhn. nauk; BERENBLIT, V.V., nauchn.sotr.; VASIL'YEV, V.P., kand.khim. nauk; DOHYCHIN, D.P., doktor khim. nauk; ICFFE, B.V., dokt. khim.nauk; KAMINSKIY, Yu.L., nauchn.sotr.; KARPOVA, I.F., kand. khim. nauk; KOPYLEV, B.A., doktor khim. nauk; LUTUGINA, N.V., kand. khim. nauk; MATEROVA, Ye.A., kand. khim. nauk; MORACHEVSKIY, Al.G., kand. khim. nauk; MORACHEVSKIY, An.G., kand. khim. nauk; NIKEROV, A.E., kand. khim. nauk; PAL'M, V.A., kand. khim. nauk; RABINOVICH, V.A., kand. khim. nauk; SOKOLOV, P.N., kand. khim. nauk; FRIDRIKHSBERG, D.A., kand. khim. nauk; TSYGIR, Ye.N., nauchn. sotr.; SHAGITSULTANOVA, G.A., kand. khim. nauk; SHKODIN, A.M., doktor khim. nauk; YATSIMIRSKIY, K.B.; GRIGOROV, O.N., doktor khim. nauk, red.; ZASLAVSKIY, A.I., kand. khim. nauk, red.; MORACHEVSKIY, Yu.V., prof., red.; RACHINSKIY, F.Yu., kand. khim. nauk, red.; POZIN, N.Ye., doktor tekhn. nauk, red.; PORAY-KOSHITS, B.A., doktor khim. nauk, red.; PROTASOV, A.M., kand. fiz.-mat. nauk, red.; ROMANKOV, P.G., red.

[Handbook for the chemist] Spravochnik khimika, 2. izd., perer. i dop. Moskva, Khimiia. Vol.3. 1964. 1004 p. (MIRA 18:1)

1. Chlen-korrespondent AN SSSR (for Romankov). 2. Deystvitel'nyy chlen AN Ukr.SSR (for Yatsimirskiy).

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310017-9"

SUCH THE SECRETARISE SECTION OF THE PROPERTY OF THE

TSYGODA, I.M.; KAZAKOV, V.N.; KOLESNIKOV, N.A.; BRYUKHANOV, N.G.; BURBA, A.A.; SADYKOV, V.I.; PIGAREV, A.D.; Prinimali uchastiye: PECHENKIN, S.N.; GLAZACHEV, G.M.; KHVESYUK, F.I.; KODINTSEV, A.V.; YERGALIYEV, E.Ye.; YERMAKOVA, Z.S.; NOVAK, I.V.; KHIL'KO, I.Ye.; LYASHEVSKIY, R.A.; PROKHQ-ROV, A.I.; CHERTOVA, N.G.; URUBKO, V.N.; KUGUCHEV, V.V.

Industrial testing of a flow sheet for the processing of Altai complex metal ores along the lines of the flow sheet used at the Mednegorskii Combine. TSvet. met. 36 no.12:12-15 D *163. (MIRA 17:2)

1. Vsesovuznyy nauchno-issledovatel'skiy gorno-metallurgicheskiy institut tsvetnykh metallov (for Pechenkin, Glazachev, Khvesyuk, Kodintsev). 2. Irtyshskiy polimetallicheskiy kombinat (for Yergaliyev, Yermakova). 3. Mednogorskiy medno-sernyy kombinat (for Novak, Khil'ko, Lyashevskiy, Prokhorov, Chertova, Urubko, Kuguchev).

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310017-9"

SHOYKHET, B.A.; ARAV, R.I.; TSYGONIY, L.D.; RUTKOVSKAYA, L.M.

Desulfation of Sivash brine during its complex treatment.
Ukr. khim. zhur. 29 no.2:214-219 '63. (MIRA 16:6)

1. Gesudarstvennyy institut prikladnoy khimii, Yevpatoriya.
(Sivash region—Brines) (Sulfates)

KHACHATUROV, A.S.; BAZHENOV, N.M. [deceased]; NAUMOVA, S.F.; TSYKALO, L.G.; YEROFEYEV, B.V.

Nuclear magnetic resonance spectra and structure of oligomers of 1,3-cyclohexadiene. Dokl. AN BSSR 7 no.7:459-463 J1 '63. (MIRA 16:10)

1. Institut fiziko-organicheskoy khimii AN BSSR i Institut vysokomolekulyarnykh soyedineniy AN SSSR.

YEROFEYEV, B.V.; NAUMOVA, S.F.; TSYKAIO, L.G.; ZHAVNENKO, K.A.

Polymerization of 1,3-cyclohexadiene. Dokl.AN BSSR 3 no.3:95-99
(MIRA 12:8)

Mr '59. (Cyclohexadiene)

YEROFEYEV, B.V., akademik; NAUMOVA, S.F.; TSYKALO, L.G.

Chromatographic separation of 1,3-cyclohexadiene oligomers. Dokl. AN SSSR 163 no.4:884-886 Ag 165. (MIRA 18:8)

1. Institut fiziko-organicheskoy khimii AN BSSR. 2. AN BSSR (for Yurofayev).

25265

S/190/61/003/007/009/021 B101/B220

15.9203

AUTHORS:

Naumova, S. F., Tsykalo, L. G.

TITLE:

Thermal polymerization of cyclohexadiene-1,3

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no. 7, 1961,

1031-1033

TEXT: The aim of the present paper was to achieve a clarification of the widely varying publication data with regard to the polymerization of cyclohexadiene-1,3;(${}^{c}_{6}H_{8}$). The authors supposed that an impure initial

 $^{\text{C}}_{8}\text{H}_{8}$ might be the reason for these different data. S. F. Naumova et al. has developed a new method for the production of pure $^{\text{C}}_{8}\text{H}_{8}$ and the spectroscopic control of its purity (author's certificate no. 110964, 1958; Zh. obshch. khimii, 28, 1284, 1958). The results of the polymerization of this pure $^{\text{C}}_{8}\text{H}_{8}$ are given in the present paper. Freshly distilled $^{\text{C}}_{8}\text{H}_{8}$, boiling point 80.5°C, $^{\text{C}}_{4}$ = 0.8440; $^{\text{C}}_{9}$ = 1.4746; logs = 4.00 for

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S/190/61/003/007/009/021 B101/B220

Thermal polymerization of ...

 λ_{max} = 258 m μ , was dissolved in hexane and alcohol, filled into ampullae and liberated from air by freezing in vacuum. The sealed ampullae were heated in the thermostat at 100, 130, 155, and 200°C. The molecular weight of the polymers was determined cryoscopically in benzene. The data for a temperature of polymerization of 100-155°C are indicated in Table 1. The coefficient of polymerization amounted to 8-9 and was, thus, 4-4.5 times larger than that found by F. S. Shantorovich and I. A. Shlyapnikova (Vysokomol. soyed., 2, 1171, 1960). At 200°C, the polymerization was effected without initiator. The degree of conversion amounted already after 10 hr to 83% and increased to 88%, if the reaction lasted longer. The dimer determined after precipitation of the polymer by methanol and distillation of the solvent and monomer amounted to 33-50/3, the liquid polymers having a higher molecular weight than the dimer, to 12-22%, the solid polymer to 17-33.5% of the total yield. If the reaction was continued for 40 hr, the proportion of dimer did not change. Thus, the dimer is not able to participate in the reaction. R.A. Wazangkiv and L G. Vol'faon are mentioned. There are 2 tables and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The most important reference to

Card 2/4

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310017-9"

25265 S/190/61/003/007/009/021 B101/B220

Thermal polymerization of ...

English-language publication reads as follows: A.W. Crossley, J.Chem. Soc., 85, 1403, 1904.

ASSOCIATION: Institut fiziko-organicheskoy khimii AN BSSR (Institute of

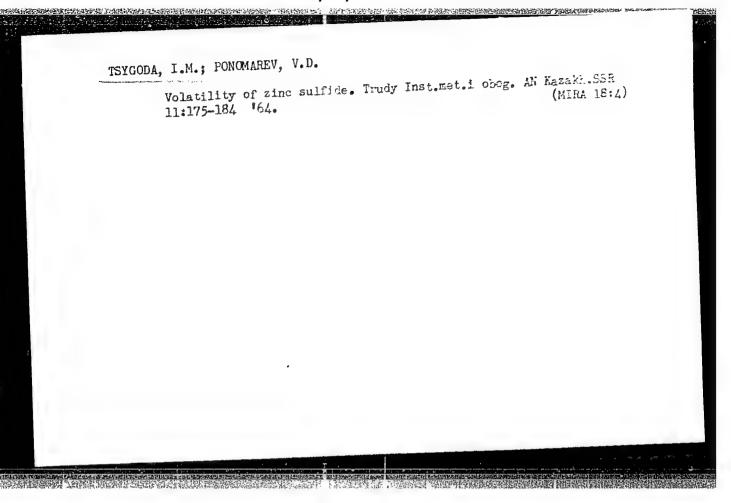
Physico-organic Chemistry, AS BSSR)

SUBMITTED: September 26, 1960

Card 3/4

TSYGIR, Ye.N.; FRIDRIKHSBERG, D.A.

The effect of foreign ("parasitic") ions on the process of ionophoresis [with summary in English]. Vest. LGU 12 no.16:103-116
157. (Electrophoresis)



TSYGODA, I.M.; KAZAKOV, V.N.; SEREGIN, Yu.I.; KORNEYEV, V.F.; Prinimali uchastiye: PECHENKIN, S.N.; GLAZACHEV, A.M.; TRAVIN, V.F.

Pilot plant testing of the sinter roasting of copper charges with a bottom blow. TSvet. met. 35 no.3123-30 Mr '62. (MIRA 15:4) (Sintering--Testing) (Copper ores)

BUZANOV, I.F., akademik, otv.red.; MEL'NIK, M.K., agronom, red.; OHLOV,
I.P., agronom, red.; FEDOROV, A.I., doktor sel'skokhoz.nauk, red.;
TSYGURA, K.D., agronom, red.; SERDYUK, B.M., red.; MANOYLO, Z.T.,
khud.-tekhn.red.

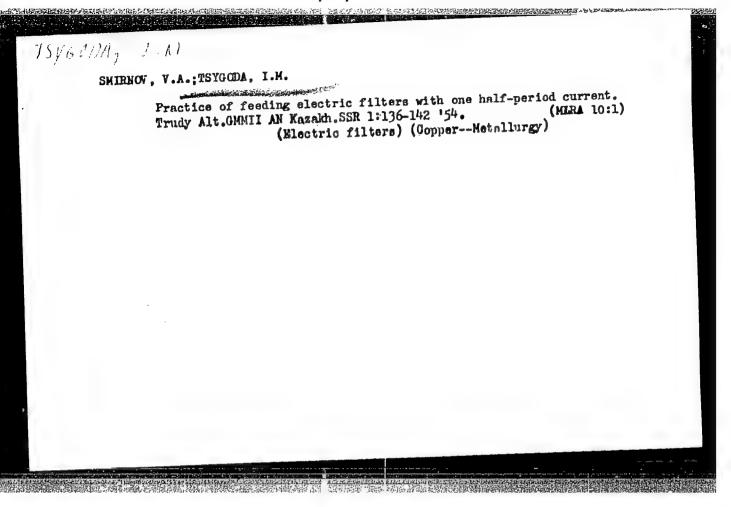
[Production of sugar beet seeds] Semenovodstvo sakharnoi svekly.

Kiev, Izd-vo Ukrainskoi akad.sel'khoz.nauk, 1960. 271 p.

(MIRA 14:1)

1. Kiyev. Vsesoyuznyy nauchno-issledovatel skiy institut sakharnoy svekly.

(Sugar beets)



TSYQULEV, A A.

YAKOVLEV, V.N., inzh.; PRIVALOV, N.N., inzh., retsenzent; TSYGULEV, A.A., red.; KARGANOV, V.G., red.graficheskikh materialov; UVAROVA, A.F., tekhn.red.

[Handbooks for mechanics and fitters] Spravochnik slesaria-montazhnika.

Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 548 p.

(MIRA 11:1)

(Machinery--Erecting work)

TSYCULEV, A. A.

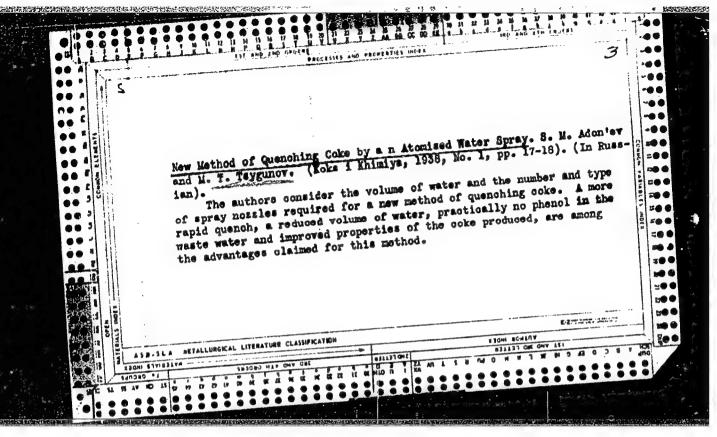
(How to identify enemy sirplanes) Moskve, Voenizdat, 19h2. 36 p.

Cyr.h TL20

1. Aeroplanes - Indentification marks.

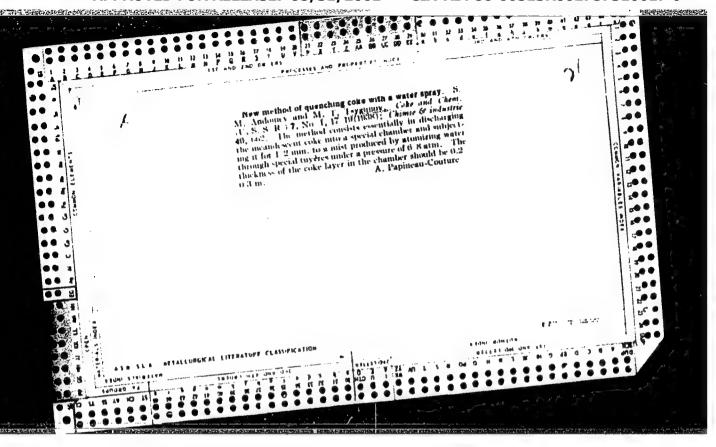
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CIA-RDP86-00513R001757310017-9 "APPROVED FOR RELEASE: 08/31/2001

ACC NR. AT7000962

SOURCE CODE: UR/0000/66/000/000/0120/0126

AUTHOR: Tsykalo, A. L.; Tabachnikov, A. G.

ORG: Odessa Institute of Naval Engineers (Odesskiy Institut Inzhenerov Morskogo

TITLE: Vapor pressures of liquid hydrogen peroxide and deuterium peroxide

SOURCE: AN UkrSSR. Teplofizicheskiye svoystva veshchestv (Thermophysical properties of materials). Kiev, Izd-vo Naukova dumka, 1966, 120-126

TOPIC TAGS: hydrogen peroxide, deuterium peroxide, vapor pressure, DEUTERIUM

ABSTRACT: The first half of the article briefly reviews the work previously done on the calculations of the vapor pressure of hydrogen peroxide. Calculations of the saturated vapor pressure of liquid H2O2 and liquid D2O2 in this work were made using a new method. In this method it is assumed that for polar substances, the molecules of which have an identical dipole moment, the universal relationship $\tau_g = \phi(\pi_g)$ holds, where τ_g is the reduced temperature and π_g is the reduced pressure. The verification of this assumption and the tabulation of $\tau_g = \phi(\pi_g, \mu)$ was carried out on the basis of the analysis of the vapor pressure curves for 26 polar substances. The generalization

Card 1/2

ACC NR: AT7000962

of the vapor pressure curves for H2O2, obtained by the Chebyshev approximation, has the form

 $\lg \pi = -\frac{4,432737}{\tau} + 7,636328 - 5,287567\tau + 2,083976\tau^{3}.$

Since the dipole moments of H2O2 and D2O2 are approximately the same, the above generalized equation was also used for the representation of the saturated vapor pressure curve for D2O2. The article gives the comparison tables for the experimentally measured values of the saturated vapor pressures of H2O2 and D2O2 with those calculated by the previously proposed and the newly derived equations. Orig. art. has: 3 tables.

SUB CODE: 07/

SUBM DATE: 04Mar65/

ORIG REF: 002/

OTH REF: 014

Card 2/2

YEROFEYEV, 1.V.; NAUMOVA, S.F.; TSYKALO, L.G.

Production of benneme by thermal polarization of 1,3-cyclohexadiene.

Dokl. AN BSSR.6 no.5:313-315 My '62.

1. Institut fiziko-drganicheskoy khimii AN BSSR.

(Cyclohexadiene)

(Benzene)

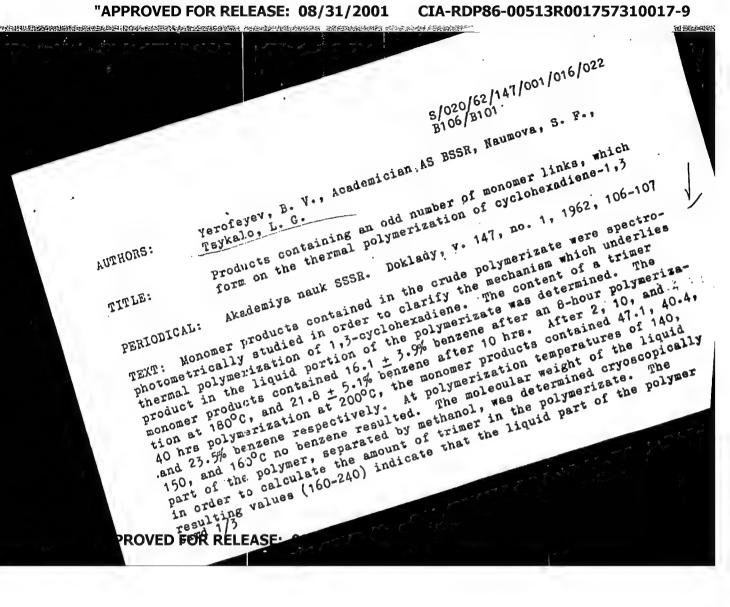
NAUMOVA, S.F.; TSYKALO, L.G.; DUDINA, G.S.

Kinetics of the thermal polymerization of cyclohexadiene-1,3 at 130° to 160°C. Dokl. AN BSSR 7 no.2:99-102 F '63. (MIRA 16:7)

1. Institut fiziko-organicheskoy khimii AN BSSR. Predstavleno akademikom AN BSSR B.V. Yerofeyevym.

(Polymerization) (Cyclohexadiene)

"APPROVED FOR RELEASE: 08/31/2001



S/020/62/147/001/016/022 B106/B101

Products containing an odd ...

contained only dimer and trimer. The trimer percentage α changes between 0.6% (10-hr polymerization at 140°C) and 11.1% (70-hr polymerization at 160°C). The results show that active monomer radicals form on thermal polymerization of 1,3-cyclohexadiene, which either add to a dimer so as to produce a trimer, or else disproportionate into benzene. The first stages of polymerization are:

polymerization are.
$$C_6H_8 + C_6H_8 \longrightarrow C_6H_7 - C_6H_9$$

$$C_6H_8 + C_6H_8 \longrightarrow C_6H_8 - C_6H_8$$

polymerization
$$C_{6H_{7}} = C_{6H_{7}} = C_{6H_{7}} = C_{6H_{9}} = C_{6H_{7}} = C_{6H_{9}} = C_{6H_{7}} = C_{6H_{9}} = C_{6H_{8}} = C_{6H_{9}} = C_{6H_{8}} = C$$

Disproportionation may occur simultaneously with reaction 2:

Disproportionation may
$$c_6H_7^2 + c_6H_8 \longrightarrow c_6H_6 + c_6H_9^2$$
 (3)

$$c_{6}^{H_{7}} + c_{6}^{H_{8}} \longrightarrow c_{6}^{H_{6}} + c_{6}^{H_{10}}$$
 (4).

The polymerization mechanism assumed by P. S. Shantorovich and I. A. Shlyapnikova (Vysokomolek. soyed., 4, 1369 (1961)) which first yields dimer biradicals recombining into the polymer, is therefore impossible. There

Card 2/3

S/020/62/147/001/016/022 B106/B101

Products containing an odd ...

is 1 table.

Institut fiziko-organicheskoy khimii Akademii nauk BSSR (Institute of Organic Physical Chemistry of the Academy of

Sciences BSSR)

June 4, 1962 SUBMITTED:

Card 3/3

ASSOCIATION:

TEROFEYEV, B.V.; NAUMOVA, S.F.; KULEVSKAYA, I.V.; MARDYKIN, V.P.;

TSYKATO, L.G.

Polymerization of ethylene in the presence of the complex of triethyl aluminum with titanium tectachloride. Vysokom.soed.

(MIRA 14:11)
3 no.11:1705-1707 N '61.

1. Institut fizikoorganicheskoy khimii AN ESSR.

(Ethylene)

(Aluminum compounds)

(Titanium chloride)

S/250/63/007/002/006/008 A059/A126

AUTHORS:

Naumova, S. F., Tsykalo, L. G., Dudina, G. S.

TITLE:

The kinetics of thermal polymerization of cyclohexadiene-1,3 at

130 to 160°C

PERIODICAL: Doklady Akademii nauk BSSR, v. 7, no. 2, 1963, 99 - 102

TEXT: The separate amounts of dimers, trimers, and higher polymers formed in the course of thermal polymerization of cyclohexadiene at 130 to 160°C, and during thermal polymerization in benzene and cyclohexadiene at 160°C for 50 hours have been determined. The experimental methods used have been described before (Sb. nauchnykh rabot IFOKh AN BSSR (Collection of Scientific Papers of the IFOKh, AS BSSR), v. 9, 1961, p. 71). The molecular weights of the solid polymer decrease with increasing temperature and depend only little on the time of reaction. The portion of the dimer (6) at constant temperature is independent of the initial concentration of cyclohexadiene-1,3 which shows that the intermediate product forming in one of the first stages of the reaction undergoes monomolecular reaction with the probability ratio of conversion of this intermediate to yield the

Card 1/3

The kinetics of thermal polymerization of ...

3/250/63/007/002/006/008 A059/A126

dimer or a higher polymer remaining constant. One of the stages of the reaction should be therefore

where $C_{12}H_{16}^*$ is the active dimer intermediate, $C_{12}H_{16}$ the inactive dimer (extracted product), and $C_{12}H_{16}^{***}$ the new active intermediate capable of adding a new monomer molecule. The most satisfactory results were obtained with the formulas:

where % is the portion of dimerized cyclohexadiene-1,3, and [a] the dimer concentration obtained after 50 hours of polymerization. Hence, no monomer products (including benzene) are formed in the thermal polymerization of cyclohexadiene-1,3 at temperatures of up to 160°C following formula (2) which cannot be derived from the previously assumed polymerization mechanisms of this substance. Card 2/3

PRESENTED: by B. V. Yerofeyev, Academician of the AS BSSR

SUBMITTED: June 26, 1962

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310017-9

Card 3/3

YEROFEYEV, B.V., akademik; NAUMOVA, S.F.; TSYKALO, L.G.

Products with an odd number of monomeric links formed in the thermal polymerization of 1,3-cyclohexadiene.

Dokl. AN SSSR 147 no.1:106-107 N '62. (MIRA 15:11)

1. Institut fiziko-organicheskoy khimii AN Belorusskoy SSR. 2. AN Belorusskoy SSR (for Yerofeyev). (Cyclohexadiene) (Polymerization)

NAUMOVA, S.F.; TSYKALO, L.G.

Thermal polymerization of 1, 3-cyclohexadiene. Vysokom.soed. 3
no.7:1031-1033 J1 '61. (MIRA 14:6)

1. Listitut fiziko-organicheskoy khimii AN BSSR.
(Cyclohexadiene)

S/190/6:/003/011/012/016
B110/B101

AUTHORS: Yerofeyev, B. V., Naumova, S. F., Kulevskaya, I. V., Mardykin
V. P., Tsykalo, L. G.

TITLE: Polymerization of ethylens in the presence of the triethyl aluminum anisolate and titanium tetrachloride complex

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 11, 1961, 1705
- 1707

TEXT: Initiators from triethyl aluminum anisolate (A) and TiCl₄ (T) for othylene polymerization have low self-inflammability. The authorn studied of the properties of polyethylene (PE) produced with them, and the effect of the properties of polyethylene (PE) produced with them, and the effect of the Art Tatio on its properties. The Al(C₂H₅)₃ CH₃OC₆H₅ was prepared by the Art Tatio on its properties. The Al(C₂H₅)₃ CH₃OC₆H₅ was dissolved in the Polyethylene of A (boiling point 97 - 105°C/-5 mm Hg) was dissolved in the plane. The TiCl₄ concentration in n-heptane was 0.4 moles/liter.

Ethylene was pressed into the reaction vessel at 12 liters/hr. At first 1-heptane, after this TiCl₄ in n-heptane, and then, during 1 min, A in 2ard 1/3

S/190/6:/003/011/012/016

Polymerization of ethylene in the...

Bi10/B101

n-heptane were added. After 20 min, PE was precipitated by means of CH_OR with 5% HGI. The tabulated values were found under atmospheric pressure at 50°C. The denaity determined in water-alcohol mixture was pressure at 50°C. The denaity determined in water-alcohol mixture was pressure for PE drops. Then, the sount of A determines the number of weight of PE drops. Then, the sount of A determines the number of resulting polymer macromolecule chains. The A:T ratio was < : in tests resulting polymer macromolecule chains. The A:T ratio was < : in tests resulting polymer macromolecule chains. The A:T ratio was < : in tests of chumnum and HCl_4 (Ref. 5, see below) had molecular weights of 67,000 chumnum and HCl_4 (Ref. 5, see below) had molecular weights of 67,000 chumnum and HCl_4 (Ref. 5, see below) had molecular weight with decreasing Ai-compound: 150°C. The decrease of the molecular weight with decreasing Ai-compound: 150°C, The decrease of the molecular weight with decreasing Ai-compound: 150°C, The decrease of the former. Thus, the TiCl_4 amount determines the number of resulting polymer chains. There are 1 table and 5 non-Soviet he number of resulting polymer chains. There are 1 table and 5 non-Soviet he number of resulting polymer chains. There are 1 table and 5 non-Soviet he number of resulting polymer chains. There are 1 table and 5 non-Soviet he number of resulting polymer chains. There are 1 table and 5 non-Soviet he number of resulting polymer chains. There are 1 table and 5 non-Soviet he number of resulting polymer chains. There are 1 table and 5 non-Soviet he number of resulting polymer chains. There are 1 table and 5 non-Soviet he number of resulting polymer chains. There are 1 table and 5 non-Soviet he number of resulting polymer section and the number of resulting polymer section and the number of resulting polymer section and the number of resulting polymer section and table polymer section and table polymer section and table

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310017-9

S/190/61/003/011/012/016 B110/B101

Folymerization of ethylene in the ...

ASSOCIATION: Institut fizikoorganicheskoy khimii AN BSSR (Institute of Physical and Organic Chemistry AS BSSR)

SUBMITTED:

December 26, 1960

Table. Ethylene polymerization.
Legend: (;) test no.; (2) amount of initiator components; (3) millimoles;
(4) polyethylene yield, g; (5) molecular weight; (6) melting point, G.

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Table

Card 3/3

S/786/61/000/009/003/006 I065/1242

AUTHORS: B.V. Yerofeyev, S.F. Naumova, L.G. Tsykalo

TITLE: The mechanism of thermal polymerization of

1,3-cyclohexadiene

SOURCE: Akademiya nauk Belorusskoy SSR. Institut fiziko-organiche-

skoy khimii. Sbornik nauchnykh rabot. no. 9.1961. Monomery,

svoystva i protsessy polucheniya polimerov, 71-79

TEXT: The thermal polymerization of 1,3-cyclohexadiene with the simultaneous formation of the dimer (1,4-ethylene-1,4,5,6,9,10-hexahydronaphtralene) and polymeric materials of unknown molecular weights has been studied by Hoffmann and Damm (Mitteilung Schlesisch.Kohlenforschunginstitut, 2, 97-146 (1925); Chem.Zentr., 1, 2342-2344 (1926); Chem.Abstr. 22, 1249 (1928)). The purpose of this work was to study the mechanism of this polymerization. 1,3-cyclohexadiene was prepared from cyclohexene hydroperoxide. The monomer was placed in ampules, connected to the vacuum system,

Card 1/3

S/786/61/000/009/003/006 The mechanism of thermal polymerization..1065/1242

degassed and sealed off under vacuum. The sealed ampules were placed in baths thermostated at between 80 and 200°C. The polymer was precipitated by the addition of four volumes of methanol. The precipitate was dissolved in benzene, reprecipitated with methanol and dried to constant weight in vacuo. The dimeric material was isolated after the first precipitation by vacuum distillation of the solvent and monomer. The quantity of trimer formed was evaluated by difference. Polymerization runs were carried out at 200, 180, 160, 130, 100 and 8000. The dimer and trimer are probably incapable of propagating the polymerization reaction. The pure dimer did not undergo thermal polymerization. The rate of polymerization increased with rise in temperature, but the molecular weights of the polymers formed were practically identical. Longer polymerication times did not change the concentrations of dimer, trimer and polymer formed. The formation of the dimer is thus a parallel reaction and not an intermediate stage in the polymerization. first stage of polymerization is the formation of an activated dimer molecule which can react in three possible ways (a) it can

Card 2/3

S/786/61/000/009/003/006 I065/I242

The mechanism of thermal polymerization...

undergo inactivation, giving an inactive dimer as final product, (b) it can react with a monomer to yield benzene and cyclohexane through disproportionation, or (c) it can form an active trimer molecule which can either form a "dead" trimer through inactivation or combine with a monomer and form an active tetramer which will propagate the polymerization with the formation of high polymeric material. There are 5 figures and 2 tables.

Card 3/3

S/786/61/000/009/001/006 I065/I242

AUTHORS: B.V. Yerofeyev, S.F. Naumová, V.P. Markykin, I.V. Kulevskaya,

L.G. Taykalo

TITLE: The dependence of the molecular weight of polyethylene

on the TiCl4/Al(iso-C4H9)3 ratio in the Ziegler catalyst

SOURCE: Akademiya nauk Belorusskoy SSR. Institut fiziko-organi-

cheskoy khimii. Sbornik nauchnykh rabot. no.9. 1961. Monomery, svoystva i protsessy polucheniya polimerov.

59-62

TEXT: In the polymerization of ethylene initiated by a Ziegler catalyst with excess TiCl₄, the molecular weight of the polyethylene obtained increases with decrease of the [AlR₃]/[TiCl₄] ratio. These findings disagree with the data of Badin (J.Am.Chem.Soc. 80, 6545, 1958). The polymerizations were carried out in a glass vessel equipped with mechanical stirrer, reflux condenser, gas inlet tube and a burette for the introduction of the dissolved catalyst components. Molecular weights were determined viscometrically

Card 1/3

S/786/61/000/009/001/006 1065/1242

The dependence of the molecular ...

(in decaline, at 135° C). The interpretation of the experimental results is based on the assumption of a very high value for the stability constant (K) of the complex

 $\text{TiCl}_{4} + \text{AlR}_{3} \xrightarrow{\text{TiCl}_{4} \cdot \text{AlR}_{3}} \text{K} \gg \frac{1}{[\text{TiCl}_{4}]_{0} + [\text{AlR}_{3}]_{0}}$

so that

where the subscript o denotes initial concentrations. Then the concentration (X) of the TiCl₄.AlR₃ complex can be represented by the approximate expressions

[X]' \approx [TiCl₄]₀ for [TiCl₄]₀ < [AlR₃]₀ [X]" \approx [AlR₃]₀ for [AlR₃]₀ < [TiCl₄],

the component at the lower concentration being the limiting parameter. Since the degree of polymerization is inversely proportional to the catalyst concentration ($\overline{DP} \sim [X]^{-1}$), the molecular

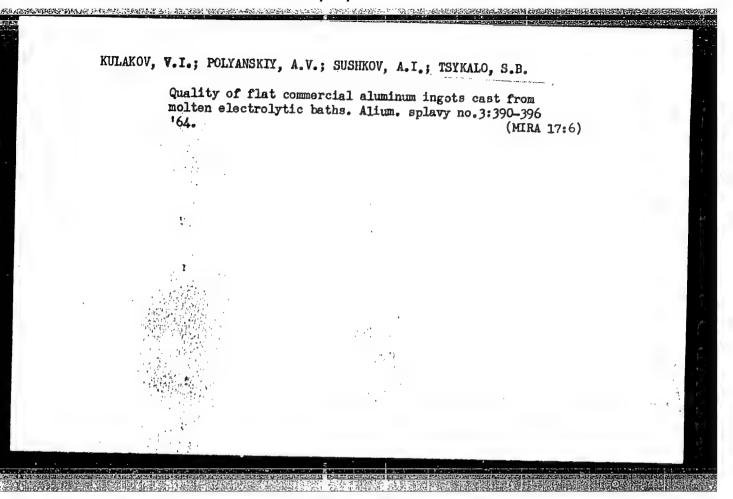
Card 2/3

The dependence of the molecular ...

S/786/61/000/009/001/006 I065/I242

weight of polyethylene will increase on decreasing the [AlR3]/
[TiCl4] ratio when [AlR3] < [TiCl4], or on increasing the [AlR3]/[TiCl4] ratio when [AlR3] > [TiCl4]. There are 3 tables.

Card 3/3



TSYKALOY, T.

More on the regeneration of oils. Neftianik 3 no.6:28 Je *58.
(MIRA 11:9)

1. Nachal'nik proyektno-smetnogo byuro Kazakhstanneftesbyta.
(Oil reclamation)

50V/92-58-6-24/30

AUTHOR:

Tsykalov, T.

TITLE:

More on the Subject of Reclaiming Lubricating Oil (Yeshche raz o

regeneratsii masel)

PERIODICAL: Neftyanik, 1958, Nr 6, p 28 (USSR)

ABSTRACT: The author agrees with the opinion expressed in the article "Lube Oil Reclaiming is an Important Problem of the Soviet National Economy" published in the Nr 9, 1957 issue of Neftyanik, and he believes that it is unwise to erect oil reclaiming units of the "Sel'khoz" 50 ton capacity type in bulk plants. The author suggests that oil reclaiming units be erected with an annual capacity ranging from 100 tons to 700 tons at existing bulk plants, and at bulk plants now in the process of construction. However, the standard type of such units has not yet been developed. Moreover, the problem of collecting the spent oil should be studied because consumers often mix different types of spent oil and deliver the mixed oil to bulk plants, which are unable to produce reclaimed oil with desirable properties from such a mixture. In the article referred to by the author the suggestion was made to build oil reclaiming units in groups which would be in a position to service several bulk plants or terminals. The author does not support this proposal and wonders if the oil reclaiming process should

Card 1/2

More on the Subject of Reclaiming (Cont.)

sov/92-58-6-24/30

be entrusted exclusively to refineries. In his opinion, bulk plants should only take care of collecting the spent oil which is still reclaimable. Therefore, the proposed plan of erecting oil reclaiming units at each bulk plant should be revised and examined once more.

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Card 2/2 1. Petroleum industry—USSR 2. Lubricating oils—Recovery

* Lin Beliebio are Try KANNER U.A.

FEYNBERG, S. M., VOROBYEV, E. D., CRYASEV, V. M., KLIMENTOV, V. B., LYASHCHENKO, N. Ya., TSIKANOV, V. A.

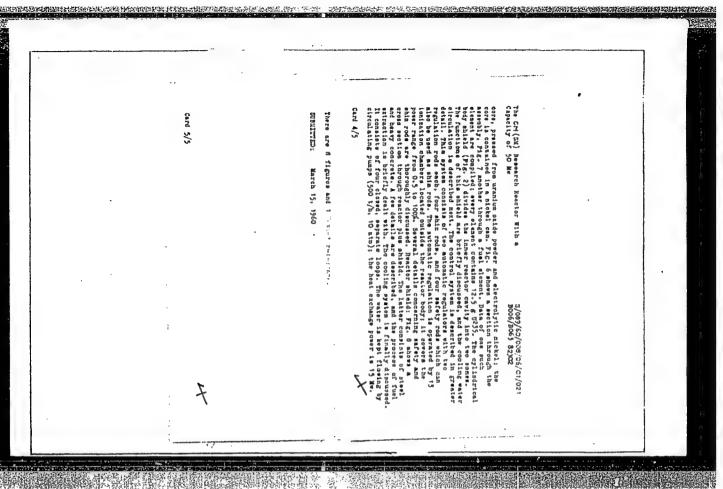
" Uranium-Water Intermediate Reactor USed for Obtaining High-Intensity Neutron Fluxes."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy. Geneva, 1 - 13 Sept 58.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310017-9"

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tests, two high-temperature holes for the testing of fuel elements, charical analyses of the cooling water, and corresion tests. All of these holes are water-cooled holes serve for testing fission and building materials in the range of 0 - 6000c; one hole (cooled with health gas or liquid E) serves for material tests at ~2000c; one bale cooled with health gas or liquid E) serves for material tests at ~2000c; one bale cooled with liquid metal (1000c) for material field elements and coolants. Construction, the following denaled were made on construction. The following denaled were made on construction for a long time, and its cooling; application of a maximum number of experimental holes (their distribution is shown in Fig. 3); possible exchange of fuel assemblies at thour pressure drop, Figs. 25; lituarity particulars of the construction. Reactor body and cover: Fig. 2 is described. The cylindrical partie made of 5 on thick stathses steel of the grade 4xf44f ([this]897]. The reflector comprising about 65 different types, which are enclosed by steel plates on top and at the batton. Fuel element assemblies: The element itself has the shape of a plate with a Card 3/5	The water-cooled, reflected rescion works with U25 enriched to 90%. The scaling the experience the experience of the Cooled to U255 and security the experience of the control of the first test from the five depends on the Cooled test test from the five depends on the Cooled test test from the five depends on the case of the cooling water executive test factors for the section of the reactor the College test test test of the other in the determine 5.5: 100 tag/cmaes). The College test of the college test test test test test of the college test test test test test test test t	ACTIONS: Legal Years, S. M. Konbbeyerstr. J. T. Dollartal', N. A. Early Manual Property of the Bulkin, N. A. Early Manual Property of the Bulkin, N. A. Early Manual Property of the Bulkin, N. A. Early Manual Property of the Capacity of the Early Office of the Early	
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S/089/63/014/003/014/020 B102/B186

AUTHOR:

Tsykanov, V. A.

TITLE:

Thermal stresses and deformations in a long bar with nonuniform internal heat release

PERIODICAL: Atomnaya energiya, v. 14, no. 3, 1963, 322 - 324

Temperature field, thermal stress and deformation are calculated for a long rectangular homogeneous bar placed near a reactor core; the heat source density distribution inside the bar is assumed to be governed by $q(x) = q_0 e^{-kx}$ or $q(x) = q_0 + kx$. For both cases the well-known relations for deformation and thermal stress are used for calculating the temperature dependences of the deformation and stress components. The cross-sectional temperature field is determined by solving the equation $\Delta T(x,y) + q(x)/\lambda = 0$. In the case of $q(x) = q_0 + kx$, the solution reads

(15) $\times \sin \left(\mu_m \frac{x}{a} \right)$ Card 1/3

S/089/63/014/003/014/020 B102/B186 Thermal stresses and deformations where (16)(17)Bi is the Biot number. on uniform elongation $\mathcal{E}_{0} = \beta T(x,y)$ is given by (20) (21) $\frac{ka^{3}\beta (6+Bi)}{15\lambda (1+Bi)}.$ where $C_n^{\bullet} = \frac{C_n}{\mu_n^2} \sin \mu_n \sinh \left(\mu_n \frac{b}{a} \right)$ (22) Card 2/3 (23).

Thermal stresses and deformations ...

S/089/63/014/003/014/020 B102/B186

The stresses can be calculated from the relation $\sigma=\text{E}\varepsilon/(1-\nu)$, E is Young's modulus and ν Poisson's ratio; ab is the cross-section area of the bar, λ the heat conduction coefficient of its material, α the heat transfer coefficient from the bar to the surrounding medium, $R_{\rm X}$ a radius of curvature, $\mu_{\rm n}$ and $\mu_{\rm m}$ are tabulated functions (cot $\mu_{\rm n}=\mu_{\rm n}/\text{Bi}$, cot $\mu_{\rm m}=-\text{Bi}/\mu_{\rm m}$). T(x,y) and $\epsilon_{\rm o}$ are given also for the case of exponential heat source distribution.

SUBMITTED: February 15, 1962

Card 3/3

在中华·日本特色的成分的共享,但有各种技术是是对性的形式。1976年,1976年

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14

AUTHOR: Tsykanov, V. A.

TITLE: Determination of cost of irradiation in a research reactor /

SOURCE: Atomnaya energiya, v. 14, no. 5, 1963, 469-473

TOPIC TAGS: irradiation cost of reactor

ABSTRACT: A method is suggested for estimating the cost of a given irradiation experiment. The total cost of operating the reactor is computed taking into consideration the life of the reactor, fuel, servicing, labor, etc. This is the cost of useful neutrons that can be utilized in an experiment; the rest of neutrons is spent on keeping the reactor going. In a multichannel reactor the efficiency of each channel may not be the same; this also must be considered in determination of cost. The effect of the specimen on the reactivity of the channel and the cooling time for the specimen also play a part. An example of the estimation of cost for a six-channel reactor is given. Orig. art. has: 12 equations.

ASSOCIATION: none

Card 1/2/

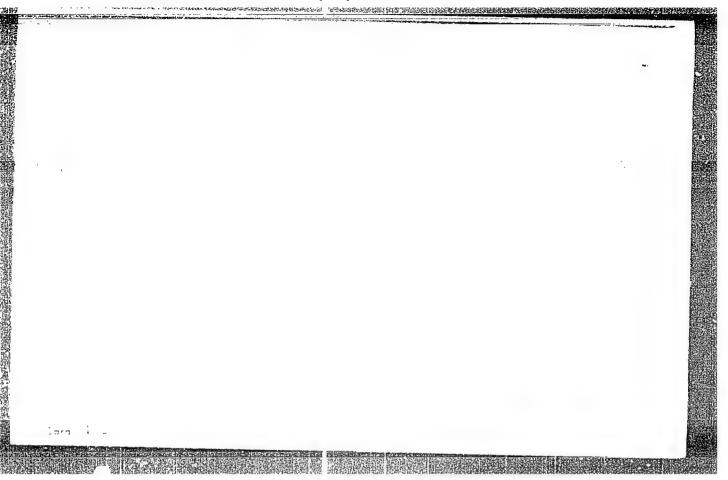
FEYNBERG, S. M.; TSYKANOV, V. A.; VOROBYEV, Ye. D.

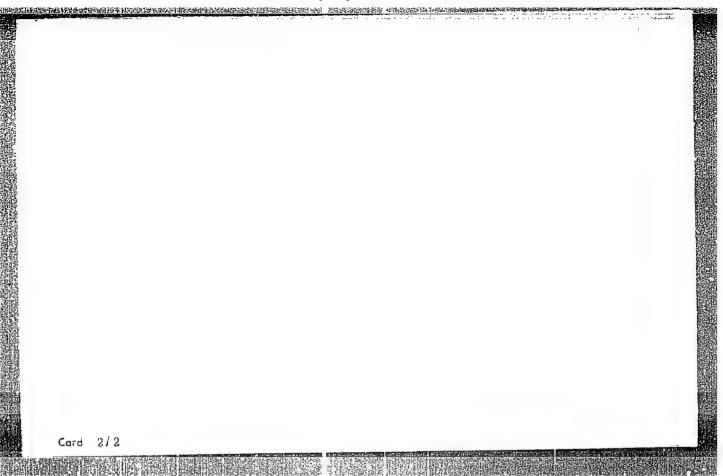
"Reactor SM-2 with the Highest Available Neutron Flux."

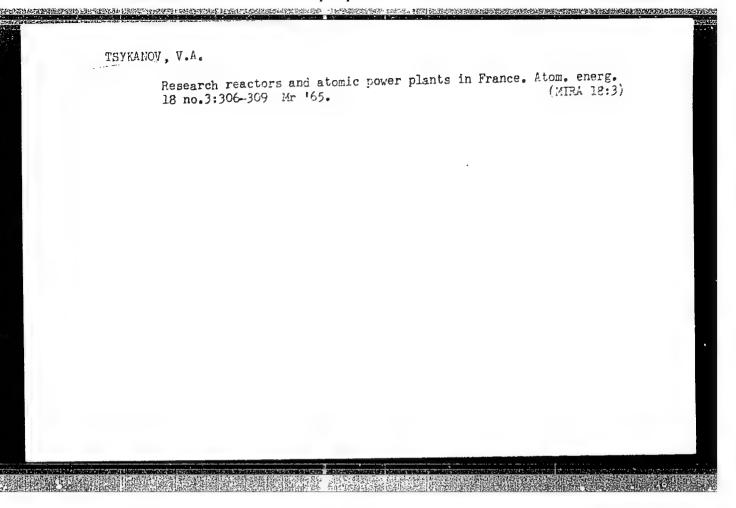
report submitted for 2nd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

FEYNER S.M. - FOR EZHAL', N.A.; VOROB'YEV, Ye.D.; TSYKANOV, Y.A.; YEMEL'YANOV, I. Ya.; GRYAZEV, V.M.; KOCHENOV, A.S.; BULKIN, YE.M.; AGEYENKOV, V.I.; AVER'YANOV, P.G.

Physical and operational characteristics of the SN-2 reactor. Atom. energ. 17 no.6:452 D 164 (NIRA 18:1)







MIKHAYLOVSKYY. ".N. [Mikhailovs'kyi, V.M.]; PERVUSHIN, V.N. [Pervushyn, V.M.]; TEYKHAN, A.I. [TSykhan, O.I.]

Acoustic methods of mine geophysical prospecting. Dop. AN (MIRA 17:7)

1. Institut mashinovedeniya i avtomatiki AN UkrSSR. 2. Chlen-korrespondent AN UkrSSR (for Mikhaylovskiy).

TSYKHAN, A.I., kand. tekhn. nauk; NIKOLAYCHIK, L.F.

Distinguishing reflected signals by intensive direct excitation in soner detection systems of nonuniformities of rocks. Vop. pered. inform. 3:72-76 *64. (MIRA 18:1)

KRINBERG, I.A.; TSYKHANSKIY, V.D.

Spectrochemical determination of small amounts of niobium and tantalum in rocks. Zhur.anal.khim. 17 no.4:466-470 J1 '62.

(MIRA 15:8)

1. Institute of Geochemistry, Academy of Sciences of the U.S.S.R., Siberian Department, Irkutsk.

(Niobium—Spectra) (Tantalum—Spectra)

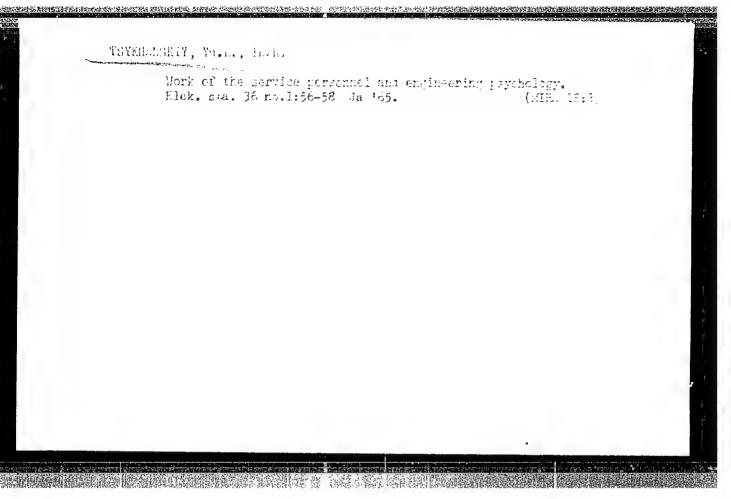
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ZNAMENSKIY, Ye.B.; KONUSOVA, V.V.; KRINBERG, I.A.; POPOLITOV, E.I.; FLEROVA, K.V.; TSYKHANSKIY, V.D.

Distribution of titanium, niobium, and tantalum in granitoids containing sphenes. Geokhimiia no.9:800-805 '62. (MIRA 15:11)

1. Institute of Geochemistry, Siberian Branch of the Academy of U.S.S.R., Irkutsk.

(Geochemistry)



Simkhayev, W. J. and Taulervanik, I. P. aronatic compounds, (from the Graduate dissertation of N. J. Simkhayev), Izvestiya Adad. nauk UzSSR, 1948, No. 4, p. 28-41, (Resure in Uzbeh), Brillog: 18 fters.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

MIKHAYLOVSKIY, V.N.; TSYKHAN, A.I.

Effect of static stresses on the propagation of elastic waves in metals. Avtom. kont. i izm. tekh. no.1:70-73 *57. (MIRA 11:6) (Sound-Transmission)

Tsykhan, A.I. (L'vov) AUTHOR:

SOV/24-58-9-21/31

THE RELEASE OF THE PROPERTY OF

TITLE:

Utilization of Audio Signal Systems in Telemetry Equipment

(O primenenii zvukovykh signal'nykh sistem v tele-

izmeritel'nykh ustroystvakh)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh

Nauk, 1958, Nr 9, pp 124 - 126 (USSR)

ABSTRACT: It is shown that certain parameters of oil boreholes can be transmitted to the surface during halts in the boring operation using audio signals transmitted through the drill tube or the drilling mud. Some data are given on the attenuation of longitudinal sound waves (at 50 to 1 200 cps) in the drill tube with a clay-base mud. The results with a steel wire are similar. Some data on the mud itself are mentioned but not fully presented. The noise spectrum data are said (not shown) to indicate an optimum frequency of

30 - 40 cps; depths as great as 3 000 m can be used under suitable conditions. There are 1 table and 3 Soviet

references.

SUBMITTED:

July 29, 1957

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310017-9"

MIKHAYLOVSKIY, V.N.; TSYKHAN, A.I.; SELASTEL'NIKOVA, E.A.

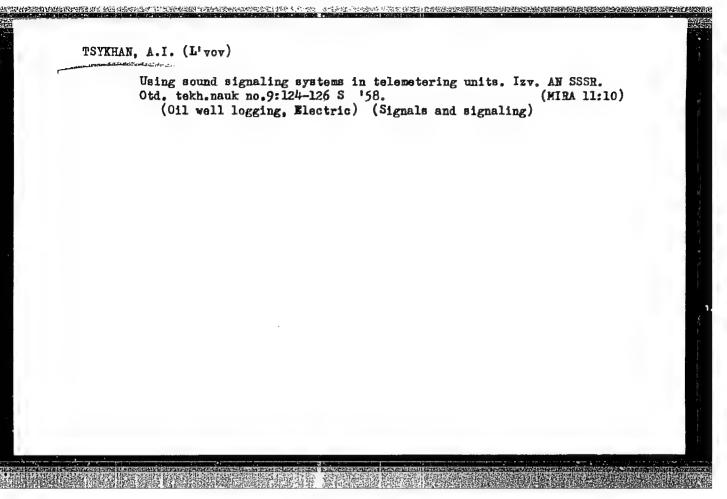
Designing a hydraulic turbotachometer. Avtom.kont. i izm.tekb.
no.5:159-164 '61. (MIRA 14:11)

(Tachometer)

TSYKHAN, A.I.; PEKHN'O, M.I.

Self-packing valve of automatic devices operating in heavily contaminated fluids. Mash. i neft. obor. no.9:24-25 '63. (MIRA 17:2)

1. L'vovskiy institut mashinovedeniya i avtomatiki AN UkrSSR.





TSYKELE, A. I.

Tsykhan, A. I.

"Investigation of acquetic channels for depth measurements in all wells." Min Higher Education Ukrainian SSR. L'vov Polytechnic Inst. L'vov. 1950. (Dissertation for the Degree of Candidate in Technical Sciences).

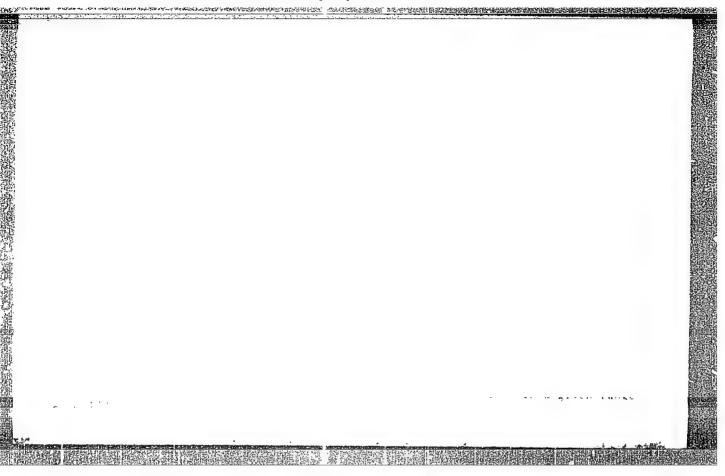
Knizhnava letopis! No. 5, 1956 Moscow

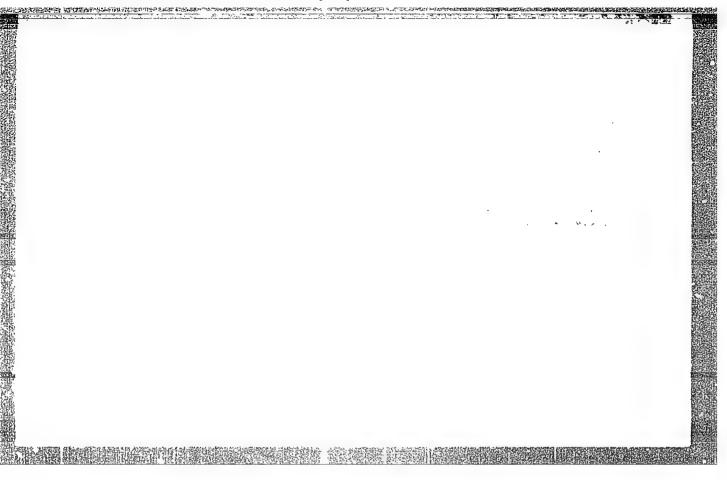
MIKHAYLOVSKIY, V.N.(L'vov); TSYKHAN A.I.(L'goy)

Effect of static tension on sound conductivity and speed in metals.

Izv.AN SSSR.Otd.tekh.nauk no.1:139-140 Ja '57. (MLRA 10:3)

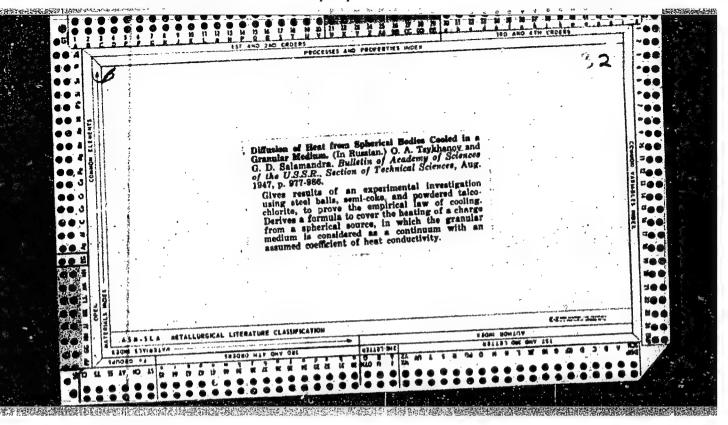
(Sound waves) (Metals)

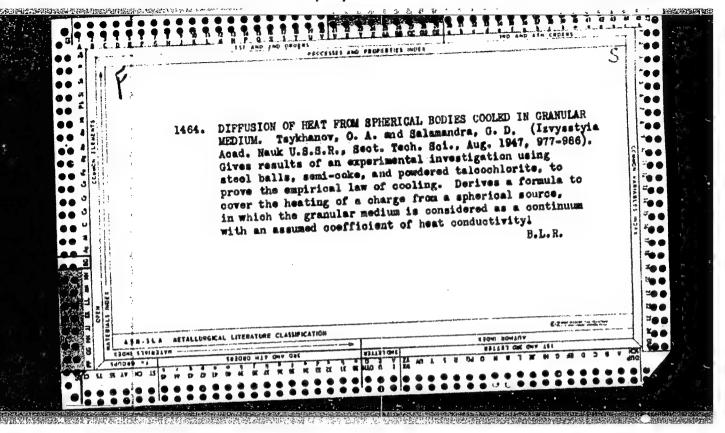




TSYKHAN, A.I.; PEKHN'O, M.I.

Shock-absorption requirements for bit rollers of small diameter in the drilling of solid rock. Neft. i gaz. prom. no.2:33
Ap-Je '64. (MIRA 17:9)





TSYKHANSKIY, T.S.

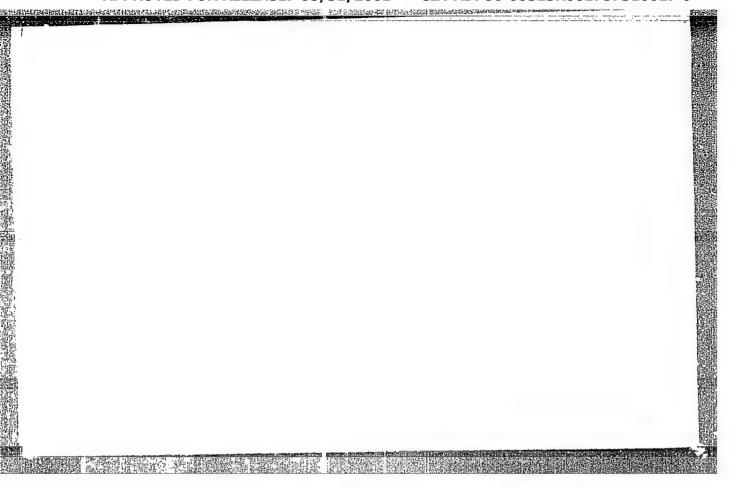
For further economy of raw materials used in the leather industry. Leg. prom. 16 no.7:12-14 J1 '56. (MLRA 9:10)

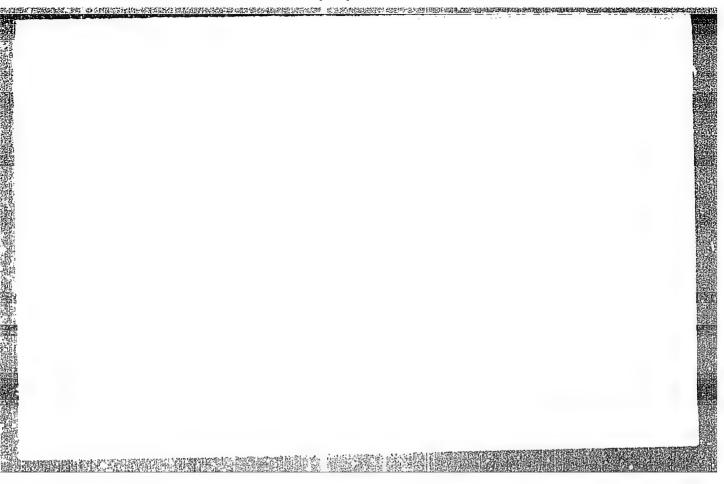
1. Nachal'nik planovo-ekonomicheskogo otdela Rosglavkozh. (Hides and skins)

KOMISSAROVA, N.V.; TSYKHANSKIY, T.S. [deceased]

New ways for solving problems in curing raw leather. Kozh.obuv. (MIRA 14:5)

prom. 2 no.3:4-6 Mr '60. (Leather)





ACCESSION NR: AP4015150

\$/0289/63/000/003/0125/0127

AUTHORS: Tsy*khanskiy, V. D.; Krinberg, I. A.

TITLE: Spectrochemical determination of small amounts of zirconium,

niobium, tantalum and hafnium in rock from one batch.

SOURCE: AN SSSR. Sib. otd. Izv., no. 11. Ser. khim. nauk, no. 3,

1963, 125-127

TOPIC TAGS: zirconium, niobium, tantalum, hafnium, analysis, spectral analysis, spectrochemical determination, phenylarsonic acid precipitation, rare earth concentration

ABSTRACT: The Zr, Nb, Ta, and Hf content of ore must be concentrated prior to spectral analysis. The following method gives a 100-300 fold enrichment: the ore is dissolved and the aforementioned metal values and Ti are precipitated with phenylarsonic acid. The precipitate is calcined at 900-1000C. This product containing TiO₂, ZrO₂, Nb₂O₅, Ta₂O₅ and HfO₂ is mixed with powdered carbon (1:4), and consumed in the anode of an electric arc (25 amp). The following lines are used for analytic purposes: Nb--2950.878, Ta--2714.674, Zr--2722.610 and Hf--2866.373 Å. If the concentration of Zr and Nb Cord 1/2

ACCESSION NR: AP4015150

exceeds that of Ta and Hf, less sensitive lines are suggested: Nb--2716.624 and Zr--2699.605 Å. Concentrations in the range of 0.007-0.3% of all four of these elements can be determined by this method within 10-15%. Orig. art. has: 1 Table.

ASSOCIATION: Institut geokhimii, Sibirskogo otdeleniya AN SSSR, Irkutsk (Geochemical Institute, Sibirsk Branch AN SSSR, Irkutsk)

SUBMITTED: 27Jul62

DATE ACQ: 13Mar64

ENCL: 00

SUB CODE: CH

NR REF SOV: 008

OTHER: 000

Card 2/2

TSYKHATTKIL, V.D.; KONUSOVA, V.V.

iossibility of determining small amounts of tentalum in rocks by the photometric method. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1:133-135 '65. (MIRA 18:8)

1. Institut geokhimii Sibirskogo otdeleniya AN SSSR, Irkutsk.

S/075/62/017/004/005/006 1017/1242

AUTHORS:

Krinberg, I.A., and Tsykhanskiy, V.D.

TITLE:

Spectrochemical determination of small amounts of

niobium and tantalum in rocks

PERIODICAL:

Zhurnal analiticheskoy khimii, v.17, no.4, 1962,

466-470

A method is proposed for the determination of niobium and tantalum in granite. The rock is at first enriched chemically by treatment with phenylarsonic acid to precipitate selectively niobium, tantalum and titanium. The enriched products are then analysed spectroscopically. Tantalum is determined by

Card 1/2

\$/075/62/017/004/005/006 1017/1242

Spectrochemical determination...

the spectral line Ta 2714 . 674 and niobium by Nb 2950, 878. The determination of niobium and tentalum by this method is possible only if the content of these elements in the rock exceeds 5x10-5%. The error is 7% for niobium and 9% for tantalum. There are 2 figures and 5 tables.

ASSOCIATION:

Institut geokhimii Sibirskogo otdeleniya AN SSSR,

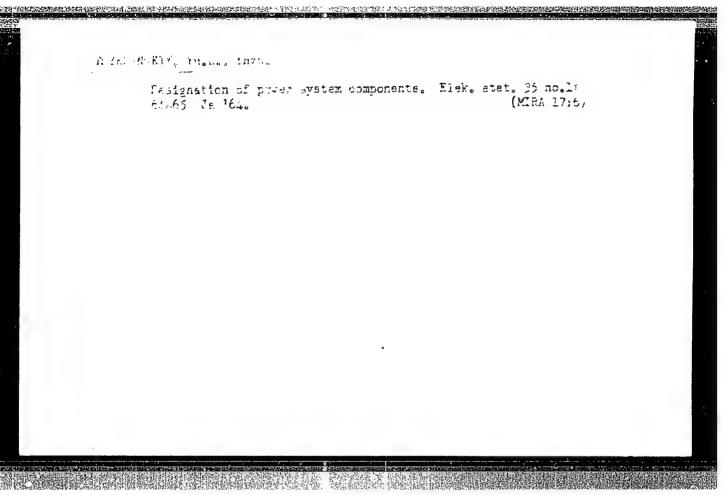
Irkutsk (Institute of Geochemistry, Siberian Section

AS USSR! Irkutsk)

SUBMITTED:

June 12 | 1961

Card 2/2



1-1/KIAN-E1 1,14.

VAYNSHTEYN, B.Z., inzhener; GOL'TSMAN, V.G., inzhener; DENKEVITS, E.G., inzhener; TSYKHANSKIY, Yu. L., inzhener; LEBEDEVA, V.I., inzhener.

Replies to N.F. Burzhinskii's article "Articles from protection against electric ourrent." Energetik 4 no.11:11-15 E '56.

(Clothing, Protective) (Electric engineering-Safety appliances)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757310017-9"

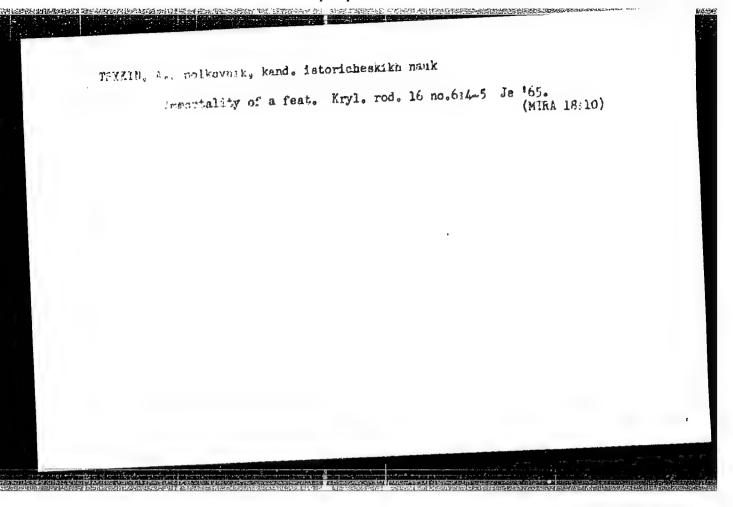
TSYKHANSKIY, Yu.L., inzh. (Yaroslavl')

Work post of an attending dispatcher. Energetik 13 no.ll:
(MIRA 18:11)
6-7 N '65.

SHILKIN, P.M.; ZEL'VY ANSKTY, Ya.A.; SIBAROV, Yu.G.; KUSTOV, V.M.; TSYKHMAN. A.I.; KUVSHINOV, M.I.; SHIPAREV, Yu.A.; TYURNIN, G.A.; AVSTREYKH, L.D.; BAKANOV, N.N.; KHITROV, P.A., tekhn. red.

[Safety engineering regulations for operating the contact networks of d.c. electrified railroads Pravila tekhniki bezopasnosti pri ekspluatatsii kontaktnoi seti postoiannogo toka elektrifitsirovannykh zheleznykh dorog. Moskva, 1962. 128 p.

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye elektrifikatsii i energeticheskogo khozyaystva. 2. Zamestitel' nachal'nika tekhnicheskogo otdela TsE Ministerstva putey soobshcheniya (for Shilkin). 3. Technicheskiy otdel TsE Ministerstva putey soobshcheniya (for Zel'vyanskiy). 4. TSentral'nyy komitet profsoyuza rabochikh zheleznodorozhnogo transporta (for Sibarov). 5. Nauchno-tekhnicheskiy sovet Ministerstva putey soobshcheniya (for Kustov). 6. Sluzhba elektrifikatsii i energeticheskogo khozyaystva Odesskoy zheleznoy dorogi (for TSykiman). 7. ECh Yuzhno-Ural'skoy zeleznoy dorogi (for Kuvshinov). 8. ECh Moskovskoy zheleznoy dorogi (for Segala, Shiparev, Tyurnin). 9. EChK Oktyabr'skoy zheleznoy dorogi (for Avstreykh). EChK Moskovskoy zheleznoy dorogi (for Bakanov). (Electric railroads—Safety regulations)



TSYKIN, A., polkovník, dotaent, kand. istoricheskikh nauk
The Moscow Guards Regiment. Kryl. rod. 16 no.1:5 Ja 165.
(MIRA 18:3)

TSYKIN, A., kand.istorich.nauk, polkovník

Triumph of life. Kryl.rod. 14 no.6:7 Je '63. (MIRA 16:7)
(World War, 1939-1945-Aerial operations)

TSYKIN, B.S.

KOLOBOVA, M.V., inzh.; TSYKIN, B.S., inzh.

Output of clear pine lumber by sorts. Der. prom. 6 no.10:3-5 0 157.
(MIRA 10:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki drevesiny.

(Lumber)

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KOLOBOVA, M.V., inshener; TSYKIN, B.S., inshener.

Effect of the quality of pine log wood upon the grades of lumber materials. Les.prom.14 no.4:29-30 Ap 54. (MLRA 7:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki drevesiny. (Lumber--Grading) (Pine)

TSYKIN, B.S., inzhener. Rapid method of calculating deliveries. Der. prom. 5 no.10: (MLRA 9:11)

> 1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki drevesiny.

(Slide rule) (Woodwork)

15-16 0 156.